

Translation

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PATENT COOPERATION TREATY

PCT/EP2003/013917



PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

539,943

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P801084/WO/1	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP2003/013917	International filing date (day/month/year) 09 December 2003 (09.12.2003)	Priority date (day/month/year) 18 December 2002 (18.12.2002)
International Patent Classification (IPC) or national classification and IPC B60Q 1/00		
Applicant DAIMLERCHRYSLER AG		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet. <input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of <u>6</u> sheets.
3. This report contains indications relating to the following items: I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 09 July 2004 (09.07.2004)	Date of completion of this report 16 March 2005 (16.03.2005)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

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International application No.

PCT/EP2003/013917

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
 pages _____, 1, 3-7 _____, as originally filed
 pages _____, filed with the demand
 pages _____, 2, 2a _____, filed with the letter of _____ 29 September 2004 (29.09.2004)
- ☒ the claims:
 pages _____, as originally filed
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages _____, 1-16 _____, filed with the letter of _____ 29 September 2004 (29.09.2004)
- ☒ the drawings:
 pages _____, 1/1 _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-16	YES
	Claims		NO
Inventive step (IS)	Claims	1-16	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-16	YES
	Claims		NO

2. Citations and explanations

WO 98/54030 (document D6), which is considered to be the prior art closest to the subject matter of claim 1, discloses a multifunctional lighting device with the features specified in the preamble of independent claim 1.

The problem addressed by the present invention can be seen as that of improving the multifunctional lighting device so that when the semiconductor light source and the sensor are used at the same time the beam paths of the light and of the sensor ensure increased measuring precision.

The problem is solved by the features specified in the characterising part of claim 1, more particularly the optical systems with different emission and reception characteristics, the projection of which in a two-dimensional plane corresponds to a cylindrical two-dimensional Cartesian oval.

Optical systems with different emission and reception characteristics in multifunctional lighting devices are already known in the art (see document D11), as are Cartesian oval optical systems in lighting devices (see, for example, documents D2 and D10). However, there are no references in the cited prior art (D1, D3 to D9 and D11) to a combination of semiconductor light sources and sensor elements with Cartesian

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oval optical systems that might enable a person skilled in the art to arrive at a multifunctional lighting device as specified in claim 1 without making an inventive contribution. The subject matter of independent claim 1 therefore meets the requirements of PCT Article 33(2) and (3).

Independent method claim 10 and independent use claims 12 to 16 refer back to the product according to claims 1 to 9, and therefore also meet the requirements of PCT Article 33(2) and (3).

Claims 2 to 9 and 11 are dependent on claims 1 and 10 respectively and therefore also meet the PCT requirements in respect of novelty and inventive step.

Claims 1 to 16 are industrially applicable.